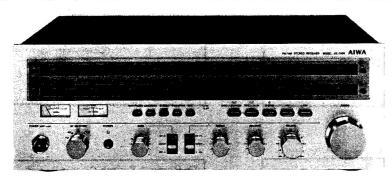


### FM/AM STEREO RECEIVER

### 

### (SERVICE MANUAL)





Set using ISO screws

DATE OF ISSUE 30/10/1977

### **SPECIFICATIONS**

**GENERAL** 

Power source:

Semiconductors:

1 IC, 1 FET, 47 transistors, 25 diodes &

AX-7400EE: 120V/220V

(Switchable) 50/60 Hz AX-7400UK: AC120V/240V

(Switchable) 50/60 Hz 205W (MAX)

Power consumption:

Dimensions: 420(W) x 150(H) x 360(D) mm

Weight:

9.0 kg

### **FM TUNER SECTION**

Frequency ranges: 87~109 MHz

Intermediate frequency:

10.7 MHz ±0.1 MHz

Frequency scale accuracy:

Frequency scale accuracy:

±150 kHz (88 MHz)

±200 kHz (98 MHz)

±150 kHz (108 MHz)

150 kHz (108 MHz)

AX-7400EE: (SN26 dB, div 40 kHz)

3±2 dB (88, 98, 108 MHz)

AX-7400UK: (SN30 dB, div 75 kHz,

ThD 3%)

THD 3%) 7 ≤ 10 dB (88 MHz)  $7 \le 9 \text{ dB } (98, 108 \text{ MHz})$ 

Image frequency interference ratio:

45 ≥ 40 dB (98 MHz)

Intermediate frequency interference ratio:  $75 \ge 70 \text{ dB } (98 \text{ MHz})$ 

Muting sensitivity:

26 ± 4 dB AX-7400EE: (tune out 300 kHz, Effective selectivity:

div 40 kHz) 60 ≥ 55 dB AX-7400UK: (tune out 400 kHz,

div 75 kHz)

65 ≥ 60 dB

Capture ratio:

Separation: SN ratio:

1.5 ±1 dB 40 ≥ 35 dB (1 kHz)  $63 \stackrel{=}{\geq} 58 \text{ dB (input 60 dB)}$ 

AM TUNER SECTION

515~1650 kHz Frequency ranges:

Intermediate frequency:

AX-7400EE: 455 kHz ±5 kHz AX-7400UK: 468 kHz ±5 kHz

(SN20 dB)

Image frequency interference ratio:  $40 \ge 35 \text{ dB (1400 kHz)}$ 

Intermediate frequency interference ratio:  $32 \ge 25$  (input 74 dB, 1000 kHz)

IF selectivity:

+25/-25 ±6 dB (1000 kHz) 44 ≥ 36 dB (input 74 dB, 1000 kHz)

Tuning hum:

50 ±5 dB (1000 kHz)

AGC characteristic:

PRE AMP SECTION

<PHONO AMP SECTION>

 $\begin{array}{lll} \textbf{Sensitivity/impedance:} & 2.5 \text{ mV} -52 + 2 \text{ dB/47 k}\Omega \\ \textbf{Gain:} & 35.5 \pm 1 \text{ dB (1 kHz)} \\ \textbf{Allowable input:} & 120 \geqq 100 \text{ mV (1 kHz } 0.5\%) \\ \textbf{Distortion:} & 0.4 \leqq 0.5\% \text{ (input } 100 \text{ mV} \trianglerighteq, 1 \text{ kHz)} \\ \textbf{RIAA curve deviation:} & \pm 0 \pm 0.8 \text{ dB (30 Hz} \sim 15 \text{ kHz)} \\ \end{array}$ 

Separation:

35 -5 dB (1 kHz)

SN ratio:

 $65 \ge 60 \text{ dB}$ 

<TAPE-1, AUX SECTION>

Sensitivity/impedance: 150 mV  $-16.5 + 2 dB/470 k\Omega$ 

Gain:

0 + 0 dB (1 kHz)

Distortion:

 $0.05 \leq 0.1\%$ 

Frequency response:

+0 dB (20 Hz~50 kHz)

Separation:

 $40^{-2}_{+10}$  dB

SN ratio:

70 ≤65 dB

CONTROL MAIN AMP SECTION

Gain:

37.5 ±3 dB (1 kHz)

Tone controls:

BASS +8, -7 dB/+6, -5 dB ±1.5 dB (100 Hz) 400/200 Hz turnover frequency TREBLE

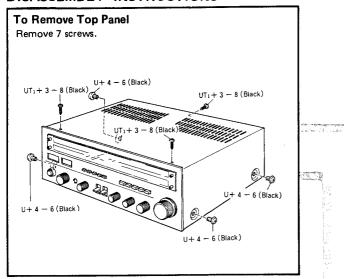
+8, -10 dB/+5, -6 dB ±1.5 dB (10 kHz)
2.5/5 kHz turnover frequency
Loudness Response: +7 ±1.5 dB (100 Hz)
(With volume at -40dB) +4 ±1.5 dB (10 kHz)
Continuous power output: 32W + 32W ≥ 30W + 30W (4Ω)

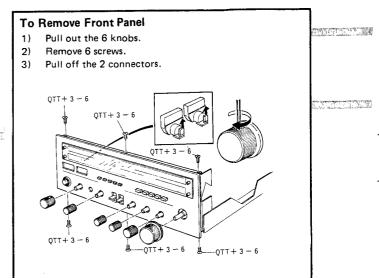
 $0.6 \leq 0.8 \,\mathrm{mV} \,(4\Omega)$ Residual noise:

Specifications and external appearance are subject to change without notice due to product improvement.



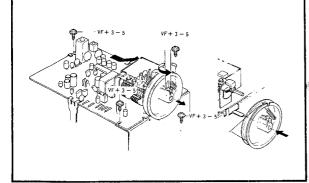
### **DISASSEMBLY INSTRUCTIONS**





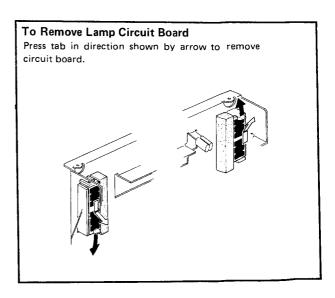
### To Remove Tuner Circuit Board

- 1) Remove 3 screws.
- In order to prevent the dial cord from slipping off the dial drum when removing the tuner circuit board, loosen setscrew and as shown in the figure, set dial drum an raised tab of chassis.

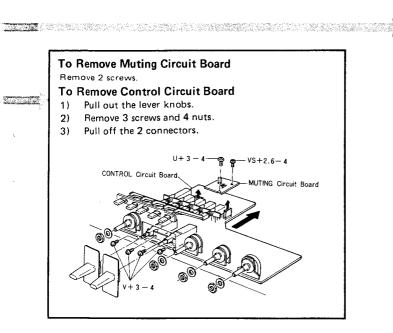


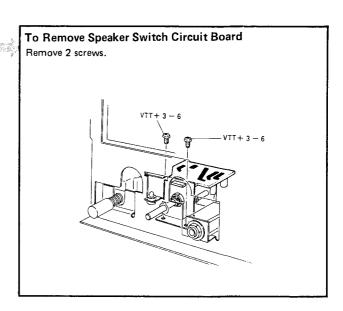
## To Remove Switch Circuit Board 1) Remove 5 stoppers. 2) Remove 1 screw and 2 nylon rivet. Motor screw, M2.5 Stopper, Rod

# To Remove Main Amp./Power Circuit Board Remove 2 screws.

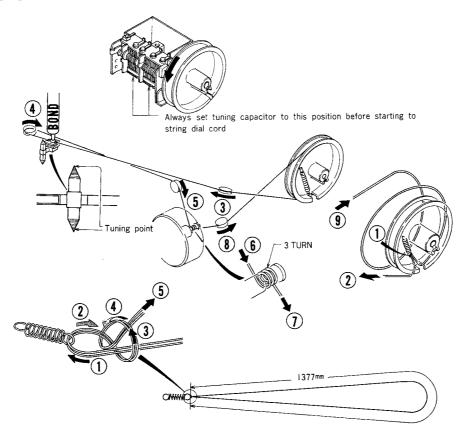




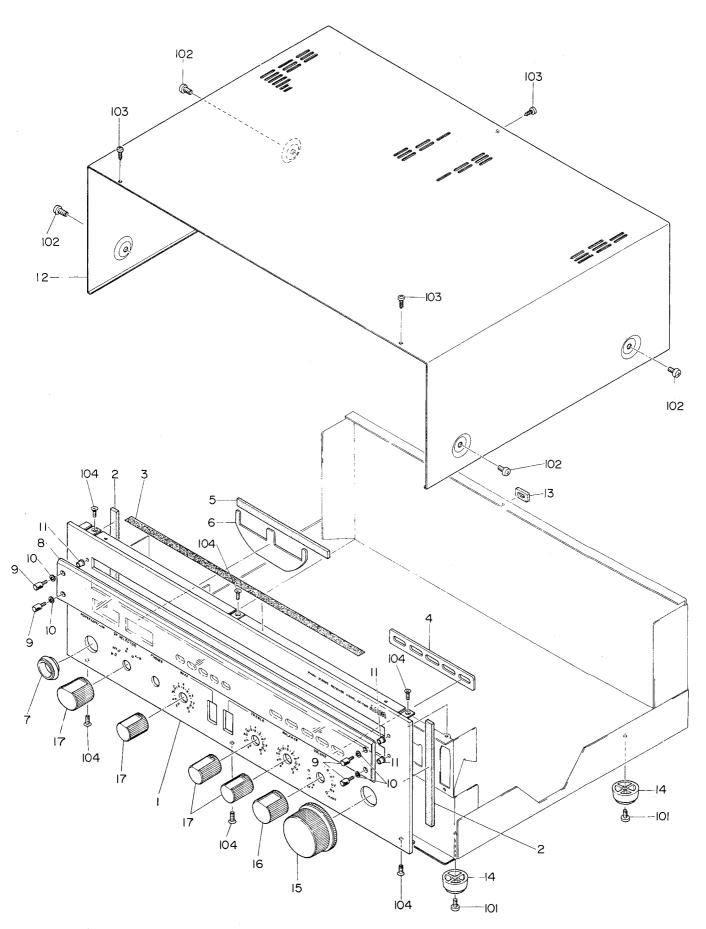




### DIAL CORD STRINGING



### **EXPLODED VIEW-1**



### MECHANICAL PARTS

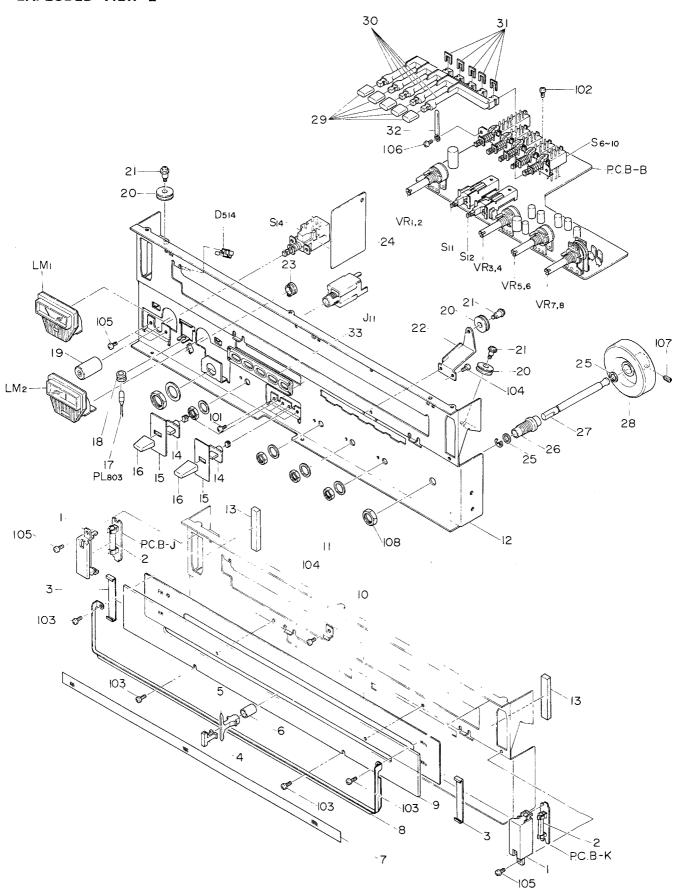
### PARTS LIST

\* mark in this part list shows exclusive part (which is used) for only Model AX-7400.

Ref. No.	ef. No. Part No. Part No. Changed to		Description	Common Model	Q'ty	
1~7	09-047-099-01		Panel Assembly			
1-1	82-488-001-01		Front panel	*	1	
1-2	82-488-224-01		Cushion, Tuning ponter holder	*	2	
1-3	82-397-245-01		Himeron cloth, Cabinet	AD-6550	1	
1-4	82-488-206-01		Guide, Button selector	*	1	
1-5	82-488-205-01		S cushion	*	1	
1-6	82-488-204-01		Spacer, Meter	*	1	
1-7	82-397-027-01		Ring, AC switch button	AD-6550	1	
1-8	82-488-012-01		Window, Tuning dial	*	1	
1-9	82-488-016-01		Screw, Window	*,	4	
1-10	82-488-024-01		G washer	*	4	
1-11	82-488-023-01		G sleeve	*	4	
1-12	82-488-002-01		Steel cabinet	*	1 1	
1-13	82-380-439-01		Spacer, Back panel	AD-6500	1 1	
1-14	87-085-144-01		Leg		4	
1-15	82-488-008-01		Knob, Tuning	*	1	
1-16	82-488-004-01		Volume knob ass'y	*	1	
1-17	82-488-006-01		Tone knob ass'y	* .	4	

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
1-101	87-253-170-01	U + 4-8	4	1-103	87-340-095-01	UT <sub>1</sub> + 3-8(Black)	3	İ
1-102	87-257-169-01	U + 4-6 (Black)	4	1-104	87-081-531-01	QTT + 3-6	6	ı

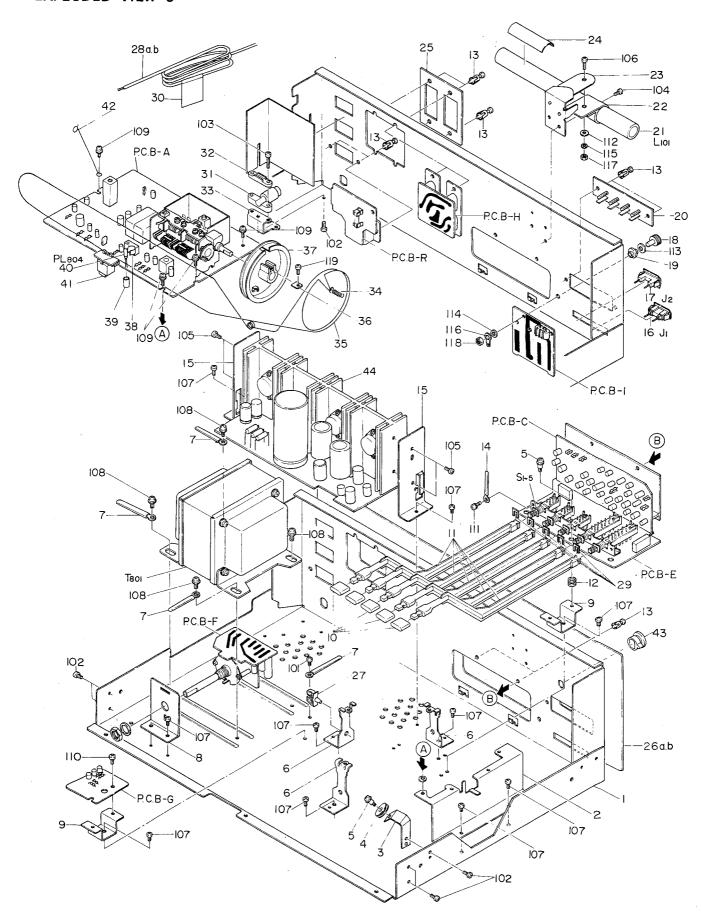
### **EXPLODED VIEW-2**



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
2-1	82-488-203-01		Holder, Lamp	*	2 2	
2-2	82-488-647-01		Lamp	*	1	
2-3	82-474-241-01		Clamp, Dial panel	AF-5050	2	
2-4	82-488-017-01		Tuning pointer	*	1 1	
2-5	82-488-027-01		Holder, Tuning pointer	*	1	
2-6	82-488-028-01		Tube, Tuning pointer	*	1	
2-7	82-488-021-01		Sheet, Tuning dial	*	1	
2-8	82-488-015-01		Frame, Tuning dial	*	1 1	
2-9	82-488-013-01		Dial plate	*	1	
2-10	82-488-014-01		Dial back plate	*	1	
2-11	82-490-214-01		Holder, Dial plate		1	
2-12	82-488-202-01		Front chassis	*	1	
2-13	82-488-225-01		Cushion B,	*	2	
2-14	82-488-022-01		Holder, Knob	*	2	
2-15	82-488-019-01		Decorative palte, Switch	*	2	
2-16	82-488-020-01		Lever, Knob	*	2	
2-17	82-488-626-01		Lamp	*	1	
2-18	87-087-029-01		Rubber cushion		1	
2-19	82-397-033-01		AC switch button ass'y	AD-6550	1 1	
2-20	82-470-276-01		Roller, 14 $\phi$	AF-3030	3	
2-21	87-081-483-01		Motor screw, M2.6		3	
2-22	82-488-214-01		Roller holder A	*	1	
2-23	82-488-228-01		Supporter, Switch	*	1	
2-24	82-488-227-01		Cover, Insulation	*	1	
2-25	87-081-548-01		PW6.1-8-0.3		2	
2-26	82-488-211-01		Tuning shaft bearing	*	1	
2-27	82-488-210-01		Tuning shaft	*	1	
2-28	82-473-259-01		Flywheel, Tuning	AX-7500	1	
2-29	82-488-011-01		Push button, FUNCTION	*	5	
2-30	82-488-213-01		Shaft, FUNCTION	*	5	
2-31	82-385-383-01		Stopper, Rod	AD-6300	1	
2-32	87-038-039-01		Wire binder		1	
2-33	82-488-207-01		Button guide, FUNCTION	*	1 1	

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
2-101	82-263-092-01	V + 3-4	4	2-105	87-081-511-01	VTT + 3-6	4
2-102	87-253-092-01	ł	1	2-106	87-480-093-01	VS + 3-5	1
2-103	87-253-035-01	1	4	2-107	87-364-093-01	SSH3-5	1
2-104	87-253-072-01	i e	3	2-108	87-081-253-01	N-9	1

### **EXPLODED VIEW-3**



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-488-201-01		Amp. chassis	*	1	
3-2	82-488-216-01		Holder A, Circuit board	*	1	
3-3	82-488-215-01		Holder B, Roller	*	1	
3-4	82-470-276-01		Roller, 14 $\phi$	AF-3030	1	
3-5	87-081-483-01		Motor screw, M2.6		2	
3-6	82-488-218-01		Holder C, Circuit board	*	3	
3-7	87-064-080-01		Wire binder		4	
3-8	82-488-208-01		Holder, Rotary switch	*	1 1	
3-9	82-488-219-01		Holder D, Circuit board	*	2	
3-10	82-488-010-01		Push button, Selector	*	5	
3-10	82-488-212-01		Shaft, Selector	*	5	
3-11	87-087-029-01		Rubber cushion		1	
3-12	87-085-102-01		Nylon rivet bushing		10	
3-14	87-038-039-01		Wire binder		1	
3-14	82-488-220-01		Holder, Power amp.	*	2	
3-15	82-445-656-01		FM external antenna terminal	TPR-250	1	
	82-445-655-01		AM external antenna terminal	TPR-250	1 1	
3-17	87-033-008-01		Terminal, Earth		1	
3-18	82-303-333-01		Spring bearing (FR-A)		1 1	
3-19	82-488-646-01	!	Antenna terminal	*	1	
3-20			Bar antenna	*	1	
3-21	82-488-645-01 82-473-013-01		Holder C. Antenna	AX-7500	1	
3-22	82-473-010-01		Antenna holder ass'y	AX-7500	1	
3-23	82-473-010-01		Caution label, Antenna	AX-7500	1	
3-24			Spacer, Jack plate	*	1 1	
3-25	82-488-226-01		Jack plate (UK model only)	*	1	
3-26(a)	82-488-030-01		Jack plate (EE model only)	*	1	
3-26(b)	82-488-018-01		Wire clip A		1 1	
3-27	87-064-038-01		AC cord (EE model only)		1	
3-28(a)	87-034-835-01		AC cord (UK model only)		1	
3-28(b)	87-034-872-01		Stopper, Rod	AD-6300	5	
3-29	82-385-383-01		Label, AC cord		1	
3-30	87-056-008-01		Holder A, AC cord		1	
3-31	87-085-094-01		Holder B, AC cord		1 1	
3-32	87-085-095-01		Holder, AC cord	AD-6550	1	
3-33	82-397-244-01		Spring, Tuning dial	AX-7500	1 1	
3-34	82-473-252-01		String, Tuning dial	, , , , , , ,		
3-35	87-096-082-01		Leaf nut	TPR-930	1	
3-36	82-461-378-01			*	1	
3-37	82-488-223-01		Drum, Tuning dial	AX-7500	1 1	
3-38	82-473-019-01		Lock plate, Pointer	77.7500	i	
3-39	82-830-102-01		UL tube, 1.6φ — 2mm	*		
3-40	82-488-627-01		Lamp	AX-7500	1 1	
3-41	82-473-018-01		Holder, Pointer	AF-5080		
3-42	82-471-212-01		Guide, Dial wire	AF-5000	1 1	
3-43	87-085-101-01		Cord bushing	AF-5080	1 1	
3-44	82-471-244-01		Heatsink	AF-5000	'	

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
3-101	82-263-092-01	V + 3-4	1	3-110	87-480-033-01	VS + 2.6-4	1
3-102	87-253-092-01	U + 3-4	7	3-111	87-480-093-11	VS + 3-5	1
3-103	87-253-099-01	U + 3-15	2	3-112	87-410-316-01	W3-8-0.8	1
3-104	87-257-092-01	U + 3-4	2	3-113	87-410-324-01	W4-10-0.4	1
•		(Black)		3-114	87-081-053-01	FW4.2-10-0.8	1
3-105	87-253-094-01	U + 3-6	4	4-115	87-421-306-01	WS-3	1
3-106	87-257-097-01	U + 3-12	1	3-116	87-450-416-01	LB-6	1
•		(Black)		3-117	87-391-017-01	N-3	1
3-107	87-081-511-01	VTT + 3-2	11	3-118	87-391-024-01	N-4	1
3-108	87-500-169-01	VF + 4-6	4	3-119	87-253-095-01	U + 3-8	1
3-109	87-500-093-01	VF + 3-5	4			1	

-Type of Head

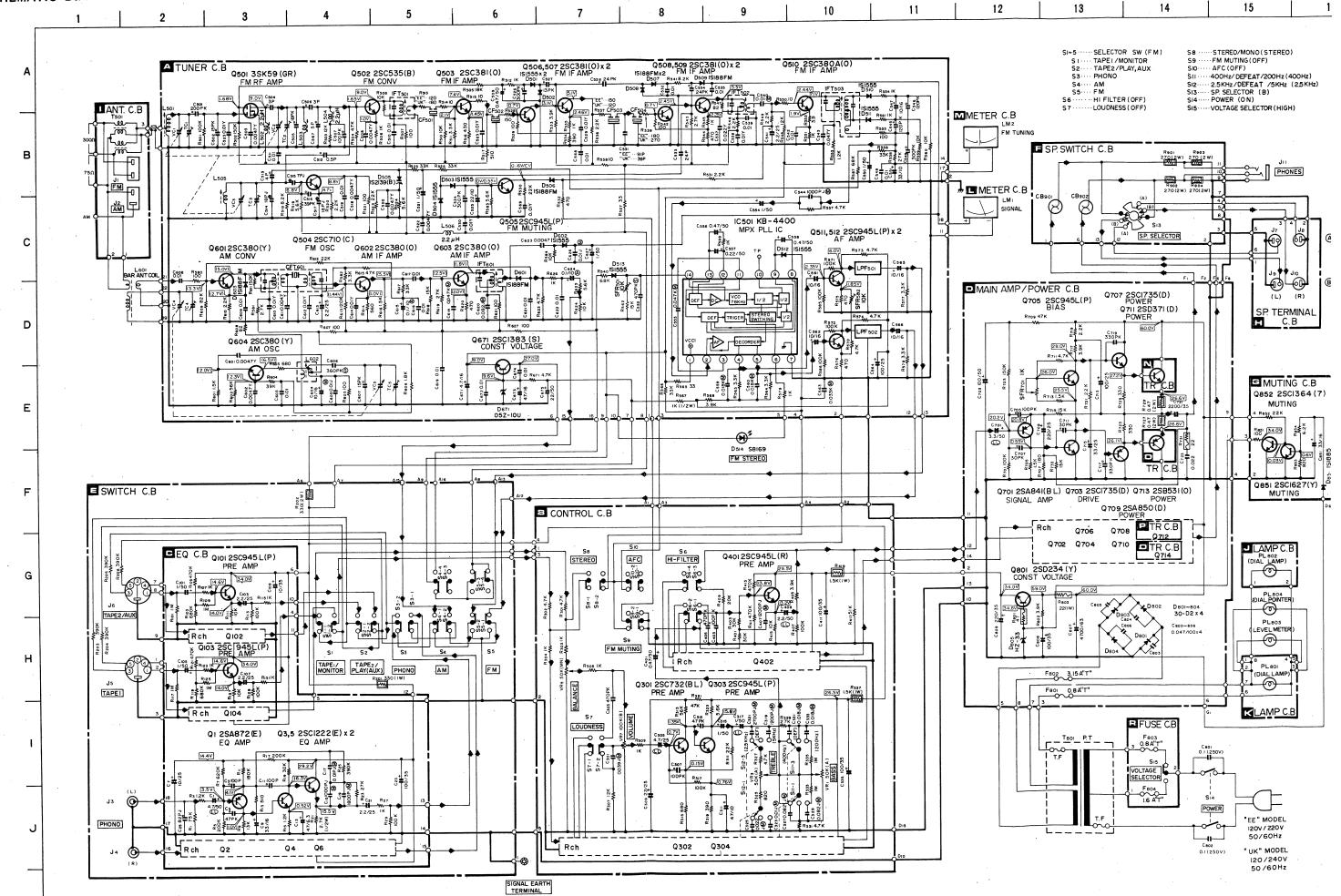
### ACCESSORIES/PACKAGE

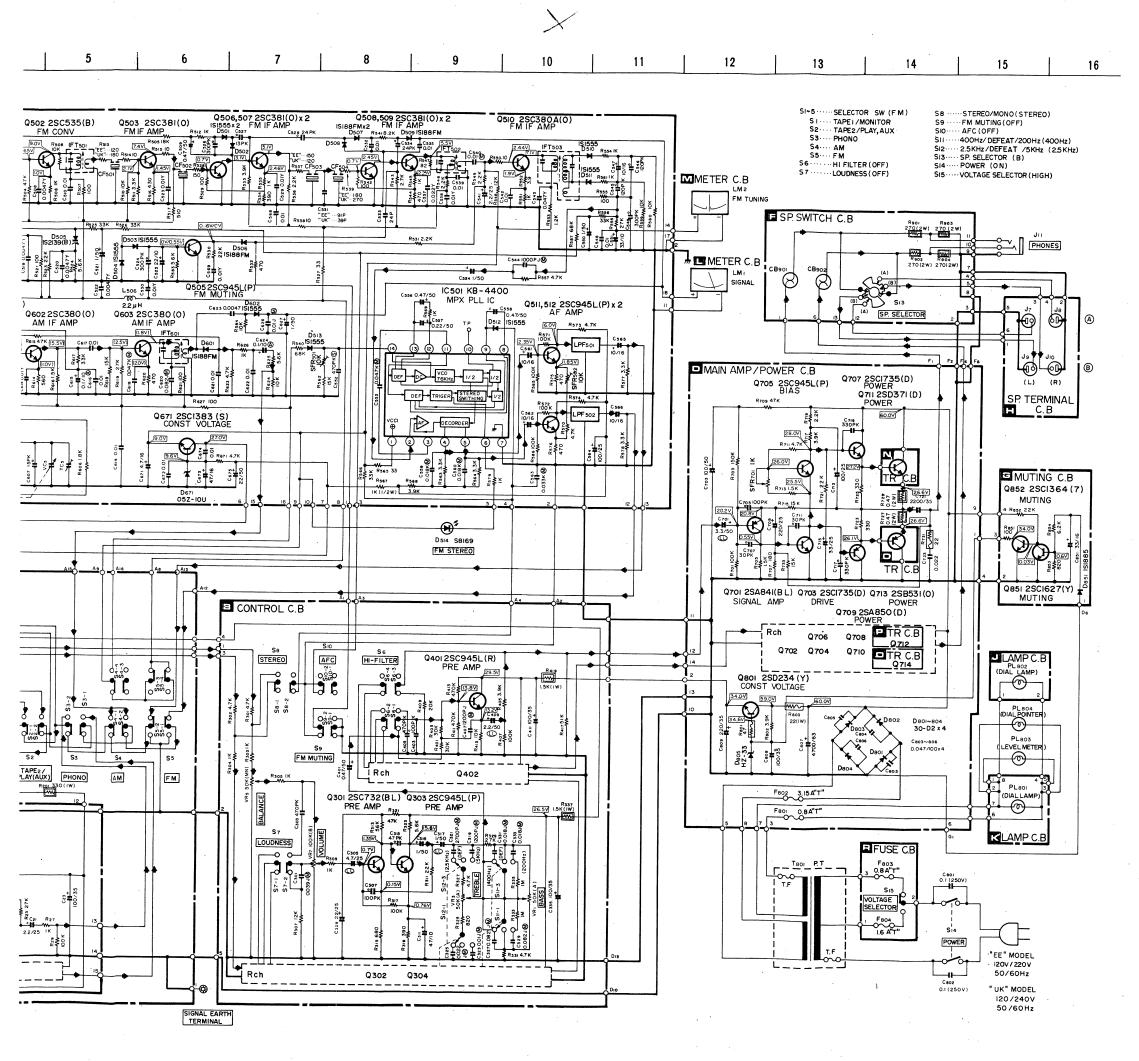
Ref. No.	. No. Part No. Part No. Changed to		Description	Common Model	Q'ty	
1	82-473-861-01		Cushion, Bar antenna	AX-7500	1	
2	82-488-851-01		Printed indiv., Packing	*	1 1	
3	82-488-852-01		Cushion L, Printed indiv.	*	1 1	
4	82-488-853-01		Cushion R, Printed indiv.	*	1 1	
5	87-051-131-01		Poly-vinyl sack		1	
6	87-051-146-01		Poly-vinyl sack (for case)		1	
7	87-056-500-01		Curl stopper		2	
8	82-488-901-01		Instructions booklet (EE model only)	*	1	
9	82-488-902-01		Instructions booklet (UK model only)	*	1	
10	87-051-171-01		Poly-vinyl sack (for instruction)		1 1	
11	87-056-008-01		Label, AC cord (UK model only)		1	
12	87-056-009-01		Disributors list		1 1	
13	87-056-016-01		Tag, Main voltage (UK model only)		1 1	

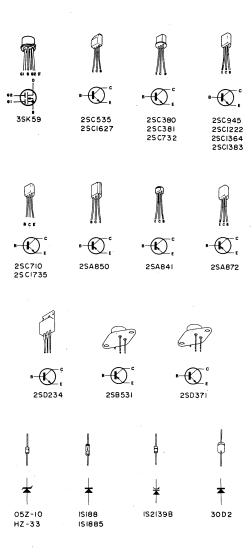
### HARDWARE NOMENCLATURE

<b>v</b> : <b>u</b> :	Pan head screw Binding head screw	SSH: Hexagon Socket SET screw  W: Washer
UT1:	Binding head tapping screw	FW: Fiber washer
VTT:	Pan head tap-tight screw	SW: Spring washer  N: Nut
QTT:	Flat countersunk tap-tight screw	LB: Lug terminal plate
VF:	Flange and Pan head screw	Example: V+3-6 Length in mm Diameter in mm Type of Slot Type of Head
VS:	Pan head screw with spring washer	Q+3-6 Length in mm Diameter in mm Type of Slot

SCHEMATIC DIAGRAM







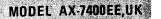
### NOTES:

- --- B(+) power supply
- 2) \Rightarrow Signal path
- → AM signal path
- The voltage is the reference value measured with a tester
   (20 k-ohms/V DC) when there are no signals.

But ( ) is with AM reception.

- Resistors with no designation have a rated power of ¼W and a tolerance of ±5%.
- Capacitors with no designation have a dielectric strength of less than 50WV.
- 6) Ceramic capacitor symbols:
  - ⊗ ⊢ For temperature compensation (SH)
  - H For temperature compensation (SL)
  - ⊢ High dielectric constant system (YY)
  - → High dielectric constant system (YP, YZ)
- 7) The only capacitor tolerances indicated are  $\pm 2\%$  (G),  $\pm 5\%$  (J) and  $\pm 10\%$  (K).
- 8) Explanation of symbols
- M Mylar capacitor
- S Styrol capacitor
- ) Tantalum capacitor
- Low-leakage capacitor
- P) Polypropylene film capacitor
- (N) Low-noise resistor

This schematic diagram is subject to change without notice in the interests of improved performance.





### • Instruments Required

### Signal Source

- 1. RF Signal generator (AM, FM).
- 2. IF sweep generator (Centered 455/468 kHz for AM and 10.7 MHz for FM).

### **Output Indicator**

- 1. V.T.V.M.
- 2. Oscilloscope

### • Regulator Adjusting Steps

For band	For stages on each band				
1. AM (MW)	1st: IF 2nd: RF frequency range 3rd: RF tracking				
2. FM	1st: IF 2nd: RF frequency range 3rd: RF tracking				

### AM-IF Alignment

Step	Signal source Connect to	Set signal to	Alignment indicator	Set radio dial to	Adjust	Adjust for
	AM IF sweep gen.	Sweep centered	Oscilloscope			
1	TP3 (AM IF input)	455 kHz (EE) 468 kHz (UK)	AM det. output tab	Min, Freq	CFT601 IFT601	Maximum

### AM-RF Alignment

	Signal source			Set radio dial to	Adjust	Adjust for	
Step	Connect to	Set signal to	Connect to	001.00.0 0.01			
	AM signal gen		V.T.V.M.				
1	Loop antenna	515 kHz (Modulated)	AM det. output tab	515 kHz (Low end)	L602 (OSC coil)	Maximum	
2	Loop antenna	1650 kHz (Modulated)	AM det. output tab	1650 kHz (High end)	TC-5 (OSC trim.)	Maximum	
3	(Repeat steps 1 and	2 to obtain frequen	cy range.)	,			
4	Loop antenna	600 kHz (Modulated)	AM det. output tab	600 kHz	L601 (ANT coil)	Maximum	
5	Loop antenna	1400 kHz (Modulated)	AM det. output tab	1400 kHz	TC-4 (ANT trim.)	Maximum	
6	(Repeat steps 4 and	15 to minimize track	ing error, and also	step 3 if necessary.)			

### FM-IF Alignment

_	Signal source			Set radio dial to	Adjust	Adjust for	
Step	Connect to	Set signal to	Connect to	000 10010 0101 10			
,	FM IF sweep gen.		Oscilloscope			Max	
1	TP1 (FM IF input)	Sweep centered 10,7 MHz	FM det. output tab	Max. Freq.	IFT501 IFT502	Symmetrical response equal height	
2	TP1 (FM IF input)	Sweep centered 10.7 MHz	FM det. output tab	Max. Freq.	IFT503	Symmetrica response, centered 10.7 MHz	

### FM-RF Alignment

	Signal source	Alignment indicator		Set radio dial to	Adjust	Adjust for	
Step	Connect to	Set signal to	Connect to	Out runte uner to			
	FM signal gen.		V.T.V.M.				
1	Antenna terminal	87 MHz (Modulated)	FM det. output tab	87 MHz	L505 (OSC coil)	Maximum	
2	Antenna terminal	109 MHz (Modulated)	FM det. output tab	109 MHz	TC-3 (OSC trim)	Maximum	
3	(Repeat steps 1 and 2	2 to obtain frequen	cy range.)				
4	Antenna terminal	88 MHz (Modulated)	FM det. output tab	88 MHz	L501 (ANT coil) L503 (RF coil)	Maximum	
5	Antenna terminal	108 MHz (Modulated)	FM det, output tab	108 MHz	TC-1 (ANT trim) TC-2 (RF trim)	Maximum	
6	(Repeat steps 4 and	5 to minimize track	ing error, and ste	p 3 if necessary.)			

### MODEL AX-7400EE,UK MODEL AX-7400EE,UK

### **MPX Adjustment**

### • 19 kHz

### Conditions:

Selector switch: FM ST/MONO switch: STEREO

Dial position: detuned from station

Adjust SFR501 for 19 kHz ± 30 Hz frequency at 19 kHz

### test point (TP-5).

### MPX

### Conditions:

Carrier frequency: 98 MHz

Input Signal: 60 dB

Modulation: Pilot signal 10%

Composite signal 90%

Modulation frequency: 1 kHz

Tune dial to 98 MHz and adjust SFR502 for optimum sepa-

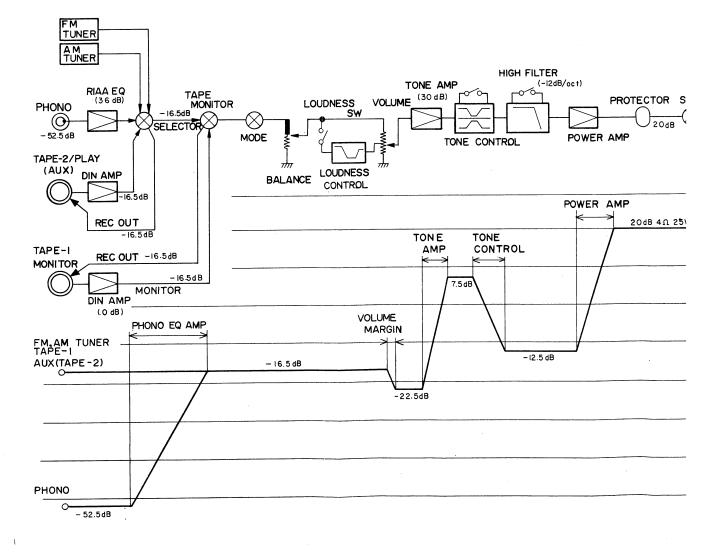
ration (40 dB).

### How to change the upper limit of FM frequency range from 109 MHz to 104 MHz. (EE model only)

Symbol No.	Description	109 MHz		Description 109 MHz			104 MHz	
C514	Ceramic Capacitor	18 pF	88-251-180-01	18 pF + 10 pF	88-251-180-01 88-251-100-01			

<sup>\*</sup> Attach a 10 pF ceramic capacitor to the rear of the C514 on the tuner circuit board.

### LEVEL DIAGRAM



### ulator Adjusting Steps

t	For stages on each band			
MW)	1st: IF 2nd: RF frequency range 3rd: RF tracking			
	1st: IF 2nd: RF frequency range 3rd: RF tracking			

Set radio dial to	Adjust	Adjust for
Min. Freq	CFT601 IFT601	Maximum

et radio dial to	Adjust	Adjust for
515 kHz (Low end)	L602 (OSC coil)	Maximum
1650 kHz (High end)	TC-5 (OSC trim.)	Maximum
600 kHz	L601 (ANT coil)	Maximum
1400 kHz	TC-4 (ANT trim.)	Maximum

Set radio dial to	Adjust	Adjust for
Max. Freq.	IFT501 IFT502	Max Symmetrical response equal height
Max. Freq.	IFT503	Symmetrical response, centered 10.7 MHz

Set radio dial to	Adjust	Adjust for					
87 MHz	L505 (OSC coil)	Maximum					
109 MHz	TC-3 (OSC trim)	Maximum					
88 MHz	L501 (ANT coil) L503 (RF coil)	Maximum					
108 MHz	TC-1 (ANT trim) TC-2 (RF trim)	Maximum					
3 if necessary.)							

### MPX Adjustment

### • 19 kHz

### Conditions: Selector switch: FM ST/MONO switch: STEREO Dial position: detuned from station Adjust SFR501 for 19 kHz ± 30 Hz frequency at 19 kHz test point (TP-5).

### MPX

### Conditions:

Carrier frequency: 98 MHz Input Signal: 60 dB

Modulation: Pilot signal 10% Composite signal 90%

Modulation frequency: 1 kHz

Tune dial to 98 MHz and adjust SFR502 for optimum sepa-

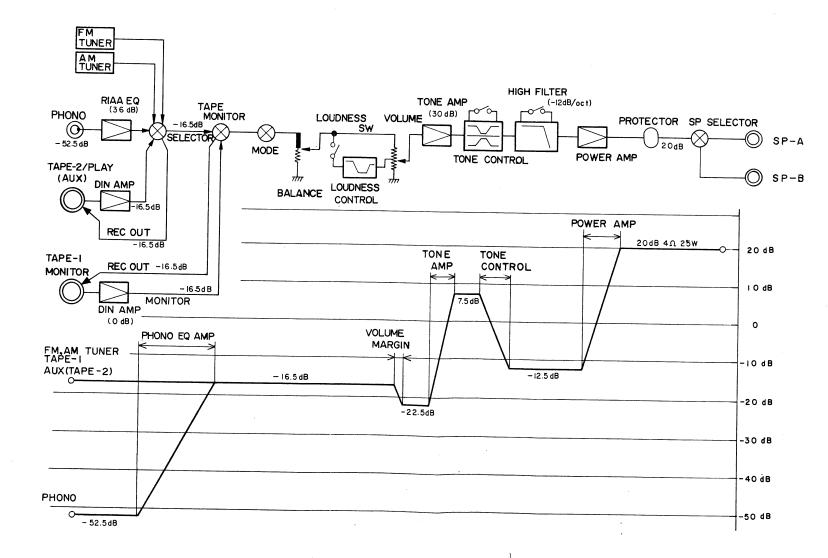
ration (40 dB).

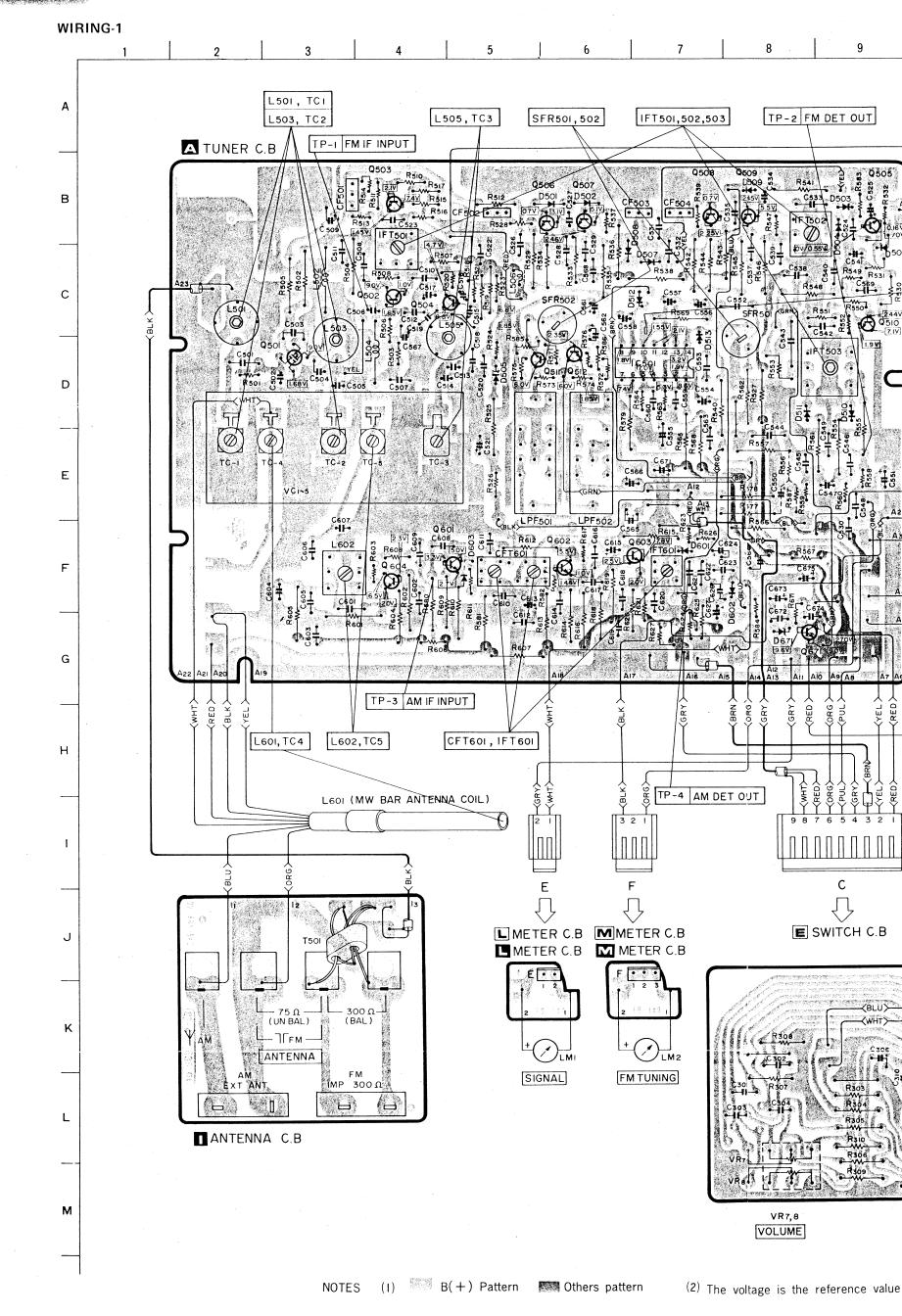
How to change the upper limit of FM frequency range from 109 MHz to 104 MHz. (EE model only)

Symbol No.	Description		109 MHz		104 MHz	
C514	Ceramic Capacitor	18 pF	88-251-180-01	18 pF + 10 pF	88-251-180-01 88-251-100-01	

<sup>\*</sup> Attach a 10 pF ceramic capacitor to the rear of the C514 on the tuner circuit board.

### LEVEL DIAGRAM





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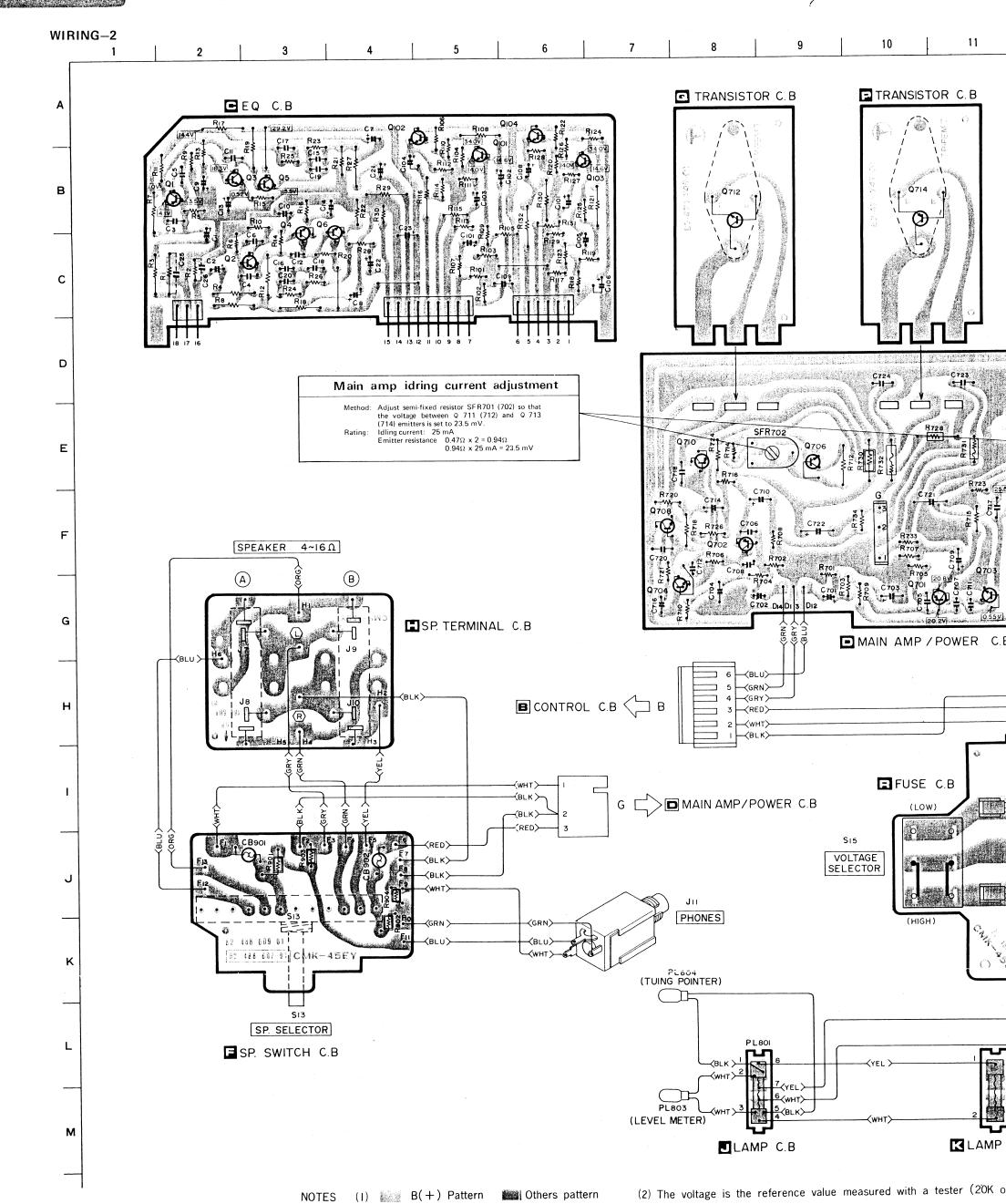
-2 FM DET OUT TAPE TAPE2/AUX PHONO **E**SWITCH C.B (REC/PLAY)
\_SOURCE-TAPE2 (REC /PLAY) SOURCE SIGNAL EARTH TERMINAL TP-5 19KHz TEST POINT **□** EQ<sub>1</sub>€.B AM PHONO FM TAPE2/PLAY TAPEI/MONITOR (AUX) D514 FM STEREO **■** CONTROL C.B <GRN> <RED> ∠RED≻ ≺BLU≻ 4 3 2 D А С STEREO ■ CONTROL C.B ■SWITCH C.B **E** SWITCH C.B (BLU) 2.5KHz SI2 DEFEAT 5KHz SII DEFEAT 200Hz VRI,2 VR 3,4 R7,8 .UME VR5,6 BASS TREBLE BALANCE

is the reference value measured with a tester (20K ohms/VDC) when there are no signals.

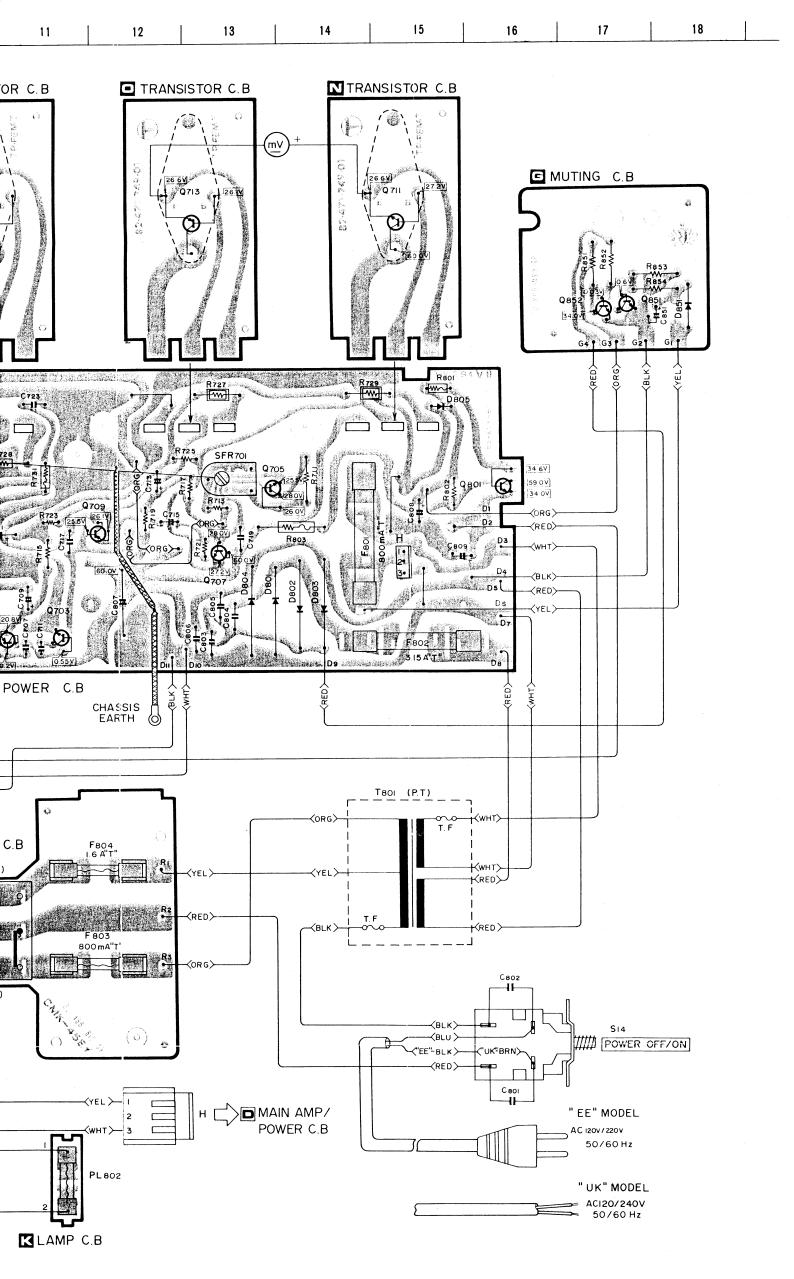
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### ELECTRICAL MAIN PARTS LIST

ELECTRICA	AL WATTER	Anto Liot				
Symbol No.	Part No.	Description	Symbol No.	Part No.	Des	cription —————————
✓ TUNER CU	RCUIT BOARD	SECTION ≫			< Capacitors	
PCB-A	82-488-649-01	Tuner circuit board	C401,402	87-015-240-01	0.47μF 50\	
	87-027-148-11	IC, KB4400	C317,318	87-015-241-01	1μF 50\	
IC501	87-026-129-01	FET, 3SK59 (GR)	C409,410	87-015-242-01	2.2µF 50\	
Q501	89-305-352-01	Transistor, 2SC535 (B)	C305,306	87-015-244-01	4.7μF 50\	/ LL Electrolytic
Q502	89-303-813-01	Transistor, 2SC381 (O)				
Q503,506,507,	89-303-613-01	1181313(01, 2000). (-)	≪ EQ CIRCU	IT BOARD SEC	CTION ≫	
508,509	00 007 100 01	Transistor, 2SC710 (C)	PCB-C	82-488-605-01	EQ circuit bo	
Q504	89-307-103-01	Transistor, 2SC945L (P)	Q1,2	89-108-725-01	Transistor, 29	SA872 (E)
Q505,511,512	89-309-456-01	Transistor, 28C380A (O)	Q3,4,5,6	89-312-222-01	Transistor, 29	C1222 (E)
Q510	87-026-045-01	Transistor, 28C380 (Y)	Q101,102,103,	89-309-456-01	Transistor, 25	SC945L (P)
Q601,60 <del>4</del>	89-303-804-01	Transistor, 25C380 (1)	104			
Q602,603	89-303-803-01	Transistor, 25C360 (C/		87-032-633-01	Pin, 3P	
Q671	89-313-834-01	Transistor, 2SC1383 (S)		87-032-636-01	Pin, 6P	
D501,502,503,	87-027-097-01	Diode, 1S1555		87-032-639-01	Pin, 9P	
504,510,511				0,002 000 01		_
512,513,602					< Capacitors	> 
D505	87-026-049-01	Diode, 1S2139 (B)	C1,2	87-015-244-01	4.7μF 50°	V LL Electrolytic
D506,507,508	88-052-188-11	Diode, 1S188 (FM)			· <del></del> -	
509,601,603	ļ		≪MAIN AM	P/POWER CIRC	CUIT BOARI	SECTION ≫
D671	87-027-239-01	Zener diode, 05Z-10U	PCB-D	82-488-650-01	Main amp/Po	wer circuit board
L501	82-473-729-01	FM antenna coil	Q701,702	89-108-416-01	Transistor, 2	SA841 (BL)
L502,504,506	82-470-604-01	FM choke coil, 2.2µH	Q703,704,	89-317-353-01	Transistor, 2	SC1735 (D)
L503	82-473-730-01	FM RF coil	707,708			
	82-471-717-01	FM OSC coil	Q705,706	89-309-456-01	Transistor, 2	SC945L (P)
L505	87-007-066-01	MW OSC coil	Q709,710	89-108-503-01	Transistor, 2	SA850 (D)
L602	84-173-614-01	FM IFT	Q801	89-402-344-01	Transistor, 2	
IFT501	82-488-651-01	FM IFT	D801,802,	87-027-185-01	Diode, 30D2	
IFT502	87-008-159-01	FM coil (Ratio)	803,804	0,02,1000.	2.002, 22	
IFT503		AM IFT		87-027-229-01	Zener diode,	HZ-33 (FN)
IFT601	87-008-160-01	AWA	D805	87-027-223-01	Fuse, 800m/	Δ "T"
VC1~5	82-471-620-01	VC	F801	87-098-015-01	1	00mA "T"
TC1~5	07 000 050 04	FM ceramic filter	5000	i - '	Fuse, 3.15A	"T"
CF 501,502,	87-030-053-01	(EE model only)	F802	87-035-119-01		! 154 "T"
503,504				87-098-021-01	1	,,,,,,,
CF501,502,	87-030-054-01	FM ceramic filter		87-032-527-01	1 .	esistor, 1kΩ-B
503,504		(UK model only)	SFR701,702	87-021-464-01		6313101, 1102 5
CFT601	87-008-118-01	AM ceramic filter transformer	PIN-G	87-032-437-01		
		(EE model only)	PIN-H	87-032-773-01	Pin, 3P	
CFT601	87-008-152-01	AM ceramic filter transformer			< Resistors	>
		(UK model only)	R727,728,	87-025-064-01	0.47Ω	Nonflammable
LPF501,502	87-030-048-01	Low pass filter	729,730	3. 3	1	resistor
SFR501,502	87-021-366-01	Semi-fixed resistor, 10kΩ-B	R803	87-029-009-01	22Ω 1	W Fuse resistor
	Ì	< Capacitors >		87-029-007-01	_	/4W Fuse resistor
00.5004	07.015.219.01		R731,732	87-029-023-01		/4W Fuse resistor
C615,624	87-015-318-01	0.1µ1 30 V Alamman 55.12	R801	87-029-023-01	'   ''	
CONTRO	CODCUIT DO	ARD SECTION ≫			< Capacitor	
			C721,722	87-015-334-01		5V Electrolytic
PCB-B	82-488-604-01		C807	87-015-335-01		3V Electrolytic
Q301,302	89-307-326-01		C701,702	87-015-243-0	1 3.3μF 5	0V LL Electrolytic
Q303,304,	89-309-456-01	Transistor, 2SC945L (P)	C723,724	87-012-099-0	1 0.022μF	Ceramic
401,402		TO A (DAGG TREELE)	C803,804,	87-012-098-0	1 0.047µF 1	00V Ceramic
VR1,2,3,4	82-488-622-01	Volume, 50kΩ-A (BASS, TREBLE)	805,806			
VR5,6	82-488-621-01	Volume, 50kΩ-MN (BALANCE)	550,555		1	
VR7,8	82-488-620-01		≪ SWITCH	CIRCUIT BOA	RD SECTIO	N≫
S6~10	82-488-602-01	Push switch (HI-FILTER,		82-488-606-0		uit board
		LOUDNESS, STEREO/MONO,	PCB-E	82-488-624-0		
		FM MUTING, AFC)	J3,4,5,6	02-480-024-0	(PHONO-L	,R,TAPE-1,TAPE-2)
S11,12	87-031-409-0	Lever switch (TURNOVER		00 400 601 0		(SELECTOR SW)
011,12		FREQUENCY/DEFEAT	S1,2,3,4,5	82-488-601-0	1	1 (022201211
		SELECTOR)	PIN-D	87-032-776-0		
DIN A	87-032-774-0		PIN-C	87-032-779-0	1 Pin, 9P	
PIN-A	87-032-776-0				< Resistors	;>
PIN-B	07-032-770-0		R201	87-025-104-0		1W Nonflammable
	İ	< Resistor >	1.201	1		resistor
R337,419	87-025-103-0		R202	87-025-105-0	1 330Ω	2W Nonflammable
		resistor	11202			resistor

	1				
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
≪SPEAKER	SWITCH CIRC	UIT BOARD SECTION ≫	≪ TRANSIS	TOR CIRCUIT	BOARD SECTION ≫
PCB-F	82-488-609-01	Speaker switch circuit board	PCB-N+O+P+Q	82-471-749-11	Transistor circuit board
S13	82-488-628-01	Rotary switch (SPEAKER	Q711,712	89-403-713-01	Transistor, 2SD371(O)
		SELECTOR)	Q713,714	89-205-313-01	Transistor, 2SB531 (O)
C·B901,902	82-488-636-01	Circuit braker, 2.5A			İ
		< Resistor >	≪ FUSE CIR	CUIT BOARD	SECTION ≫
R901,902,	87-025-055-01	$270\Omega$ 2W Nonflammable	PCB-R	82-488-612-01	Fuse circuit board
903,904	87-023-033-01	resistor	S15	87-031-364-01	Slide switch
903,904	:	16313101			(VOLTAGE SELECTOR)
≪ MUITING C	IRCUIT BOAR	RD SECTION ≫	F803	87-035-060-01	Fuse, 800mA "T"
PCB-G	82-488-653-01	Muting circuit board		87-098-015-01	Fuse label, 800mA "T"
Q851	89-316-274-01	Transistor, 2SC1627 (Y)	F804	87-035-068-01	Fuse, 1.6A "T"
Q852	89-313-647-01	Transistor, 25C1627 (17)		87-098-018-01	Fuse label, 1.6A "T"
D851	87-027-083-01	Diode, 1S1885		87-032-744-01	Fuse clamp
D001	07-027-063-01	Didde, 131865		ļ	
≪ SPE∆KER	TERMINAL C	IRCUIT BOARD SECTION ≫	≪ MISCELLA	ANEOUS ≫	
PCB-H	82-488-608-01	Speaker terminal circuit board	T801	82-488-613-11	Power transformer
J7,8,9,10	82-471-678-01	DIN speaker terminal			(EE model only)
37,0,3,10	82-471-076-01	(SP A-L,R,B-L,R)	T801	82-488-614-01	Power transformer
		(0) A-E,11,0-E,11)			(UK model only)
≪ ANT CIRC	UIT BOARD S	FCTION ≫	D514	87-026-082-01	Light emitting diode, (RED)
PCB-I	82-488-642-01				S8169 (FM STEREO)
T501	87-006-050-01	Balun transformer	L601	82-488-645-11	MW bar antenna coil
J1	82-488-656-01	DIN FM antenna terminal	PL803	82-488-626-01	Pilot lamp (METER)
J2	82-488-655-01	DIN AM antenna terminal	PL804	82-488-627-01	Pilot lamp (TUNING POINTER)
	82-488-646-01	Antenna terminal, 4P	J11	87-032-673-01	Jack 6.3φ (PHONES)
	02 100 0 10 0 1	, with the community of	S14	87-031-408-01	Push switch (POWER)
<b>≪LAMPCIR</b>	CUIT BOARD	SECTION ≫	CON-E	82-488-657-01	Connector ass'y, 2P
PCB-J·K	82-488-643-01	Lamp circuit board	CON-I	82-488-633-01	Connector ass'y, 2P
PL801,802	82-488-647-01	Pilot lamp	CON-H	82-488-638-01	Connector ass'y, 2P
	87-032-527-01	Pilot lamp clamp	CON-G	82-488-637-01	Connector ass'y, 3P
ı		• •	CON-F	82-488-639-01	Connector ass'y, 3P
≪METER CI	RCUIT BOARE	O SECTION ≫	CON-A	82-488-632-01	Connector ass'y, 4P
PCB-L•M	82-488-641-01	Meter circuit board	CON-B	82-488-631-01	Connector ass'y, 6P
LM1	82-488-618-01	Level meter (SIGNAL)	CON-D	82-488-630-01	Connector ass'y, 6P
LM2	82-488-619-01	Level meter (TUNING)	CON-C	82-488-629-11	Connector ass'y, 9P
PIN-E	87-032-772-01	Pin, 2P			< Capacitor >
PIN-F	87-032-773-01	Pin, 3P	C801,802	84-190-622-01	0.1μF 250V Line capacitor